

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2801952	pipe wall internal projection	US-PGPUB; USPAT	OR	ON	2007/07/18 07:46
S2	16906	pipe wall internal projection	US-PGPUB; USPAT	AND	ON	2007/07/18 07:46
S3	321	pipe wall internal projection "plastic deformation"	US-PGPUB; USPAT	AND	ON	2007/07/18 07:47
S4	135	pipe wall internal projection "plastic deformation" cross-section	US-PGPUB; USPAT	AND	ON	2007/07/18 07:49
S5	0	pipe wall internal projection "plastic deformation" cross-section clover-leafed	US-PGPUB; USPAT	AND	ON	2007/07/18 07:49
S6	0	pipe wall internal projection cross-section clover-leafed	US-PGPUB; USPAT	AND	ON	2007/07/18 07:49
S7	0	"clover-leafed cross-section"	US-PGPUB; USPAT	AND	ON	2007/07/18 07:50
S8	3	"clover-leafed" "cross-section"	US-PGPUB; USPAT	AND	ON	2007/07/18 07:51
S9	90	"clover-shaped" "cross-section"	US-PGPUB; USPAT	AND	ON	2007/07/18 07:51
S10	82312	pipe "cross-section"	US-PGPUB; USPAT	AND	ON	2007/07/18 07:52
S11	50682	pipe "cross-section" shaped	US-PGPUB; USPAT	AND	ON	2007/07/18 07:52
S12	337	pipe "cross-section" shaped .ti.	US-PGPUB; USPAT	AND	ON	2007/07/18 07:52
S13	4	pipe "cross-section" shaped .ti. intrusion	US-PGPUB; USPAT	AND	ON	2007/07/18 07:53
S14	12	pipe shaped .ti. intrusion	US-PGPUB; USPAT	AND	ON	2007/07/18 07:53
S15	23860	pipe improve cross-section	US-PGPUB; USPAT	AND	ON	2007/07/18 07:54
S16	18638	pipe improve cross-section increase	US-PGPUB; USPAT	AND	ON	2007/07/18 07:54
S17	17703	pipe improve cross-section wall	US-PGPUB; USPAT	AND	ON	2007/07/18 07:54
S18	7479	pipe improve cross-section wall thermal	US-PGPUB; USPAT	AND	ON	2007/07/18 07:54
S19	5191	pipe improve cross-section "side wall"	US-PGPUB; USPAT	AND	ON	2007/07/18 07:54
S20	829	pipe improve cross-section "side wall" internal projection	US-PGPUB; USPAT	AND	ON	2007/07/18 07:56

## EAST Search History

S21	22	pipe improve cross-section "side wall" internal projection convective heat exchange	US-PGPUB; USPAT	AND	ON	2007/07/18 07:57
S22	27	pipe improve "varying cross-section" "side wall"	US-PGPUB; USPAT	AND	ON	2007/07/18 08:01
S23	297	pipe "varying cross-section"	US-PGPUB; USPAT	AND	ON	2007/07/18 08:05
S24	297	pipe "varying cross-section"	US-PGPUB; USPAT	AND	ON	2007/07/18 08:10
S25	6828	pipe "shaped cross-section"	US-PGPUB; USPAT	AND	ON	2007/07/18 08:10
S26	492	pipe "shaped cross-section" "1994"	US-PGPUB; USPAT	AND	ON	2007/07/18 08:10
S27	230	pipe "shaped cross-section" heat convection	US-PGPUB; USPAT	AND	ON	2007/07/18 08:11
S28	442	pipe "t-shaped cross-section"	US-PGPUB; USPAT	AND	ON	2007/07/18 08:12
S29	39	pipe "t-shaped cross-section" fuel	US-PGPUB; USPAT	AND	ON	2007/07/18 08:13
S30	9	pipe "star-shaped cross-section" fuel	US-PGPUB; USPAT	AND	ON	2007/07/18 08:14
S31	8	pipe "star-shaped cross-section" fuel heat	US-PGPUB; USPAT	AND	ON	2007/07/18 08:25
S32	0	pipe "gear-shaped cross-section" fuel heat	US-PGPUB; USPAT	AND	ON	2007/07/18 08:25
S33	0	pipe "gear-shaped cross-section" heat	US-PGPUB; USPAT	AND	ON	2007/07/18 08:25
S34	0	pipe "jagged-shaped cross-section" heat	US-PGPUB; USPAT	AND	ON	2007/07/18 08:25
S35	4	pipe "jagged cross-section" heat	US-PGPUB; USPAT	AND	ON	2007/07/18 08:28
S36	4	"coiled pipe" .ti.	US-PGPUB; USPAT	AND	ON	2007/07/18 08:31
S37	115	"coiled pipe" fuel heat	US-PGPUB; USPAT	AND	ON	2007/07/18 08:41
S38	4	"coiled pipe" .ti.	US-PGPUB; USPAT	AND	ON	2007/07/18 08:43
S39	8	"coiled pipe" elbow	US-PGPUB; USPAT	AND	ON	2007/07/18 08:47
S40	1	"coiled pipe" snake	US-PGPUB; USPAT	AND	ON	2007/07/18 08:47
S41	505	"coiled pipe"	US-PGPUB; USPAT	AND	ON	2007/07/18 08:47

## EAST Search History

S42	1	("4411239").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/18 08:54
S43	0	cooling current air circuit	US-PGPUB; USPAT	ADJ	ON	2007/07/18 08:55
S44	61039	cooling current air circuit	US-PGPUB; USPAT	AND	ON	2007/07/18 08:56
S45	14133	cooling current air circuit fuel	US-PGPUB; USPAT	AND	ON	2007/07/18 08:56
S46	2722	cooling current air circuit fuel .ti.	US-PGPUB; USPAT	AND	ON	2007/07/18 09:01
S47	62	cooling .ti. current air circuit fuel .ti.	US-PGPUB; USPAT	AND	ON	2007/07/18 09:04
S48	0	"cooling air" .ti. current air circuit fuel .ti.	US-PGPUB; USPAT	AND	ON	2007/07/18 09:05
S49	258	"cooling air" current air circuit fuel . ti.	US-PGPUB; USPAT	AND	ON	2007/07/18 09:05
S50	1	"plastic deformation" .ti. pipe .ti.	US-PGPUB; USPAT	AND	ON	2007/07/19 16:47
S51	0	"plastic deformation" .ti. tube .ti.	US-PGPUB; USPAT	AND	ON	2007/07/19 16:47
S52	436	"plastic deformation" tube .ti.	US-PGPUB; USPAT	AND	ON	2007/07/19 16:47
S53	0	"jagged tube" "surface area"	US-PGPUB; USPAT	AND	ON	2007/07/20 11:50
S54	169	tube "cross-section" .ti.	US-PGPUB; USPAT	AND	ON	2007/07/20 11:53
S55	26	tube .ti. "cross-section" .ti.	US-PGPUB; USPAT	AND	ON	2007/07/20 11:53
S56	15	pipe .ti. "cross-section" .ti.	US-PGPUB; USPAT	AND	ON	2007/07/20 11:54
S57	26	pipe .ti. "cross section" .ti.	US-PGPUB; USPAT	AND	ON	2007/07/20 11:54
S58	0	"cooling current" "pipe" .ti.	US-PGPUB; USPAT	AND	ON	2007/07/20 12:20
S59	1	"cooling current" .ti. "pipe"	US-PGPUB; USPAT	AND	ON	2007/07/20 12:21
S60	1	"cooling current" .ti. "pipe" air	US-PGPUB; USPAT	AND	ON	2007/07/20 12:21
S61	1	"cooling current" .ti. "tube"	US-PGPUB; USPAT	AND	ON	2007/07/20 12:22
S62	0	"current of cooling"	US-PGPUB; USPAT	AND	ON	2007/07/20 12:22
S63	417	"cooling current"	US-PGPUB; USPAT	AND	ON	2007/07/20 12:22

## EAST Search History

S64	275	"cooling current" air	US-PGPUB; USPAT	AND	ON	2007/07/20 12:33
S65	68	"cool air" .ti. cooling	US-PGPUB; USPAT	AND	ON	2007/07/20 12:35
S66	1835	"cool air" cooling .ti.	US-PGPUB; USPAT	AND	ON	2007/07/20 12:35